

**METHOD OF PERFORMING ARRAY-BASED HYBRIDIZATION ASSAYS
USING THERMAL INKJET DEPOSITION OF SAMPLE FLUIDS**

ABSTRACT

5 Methods are provided for depositing a quantity of fluid onto the surface of an
array. In the subject methods, a thermal inkjet head loaded with the fluid is positioned in
opposing relationship to, e.g. over, the array surface. Actuation of the thermal inkjet
results in the expulsion of a quantity of fluid onto the array surface. The subject methods
find particular use in array-based binding assays in which an array of binding agents is
10 employed for the detection of an analyte(s), particularly array-based hybridization assays.